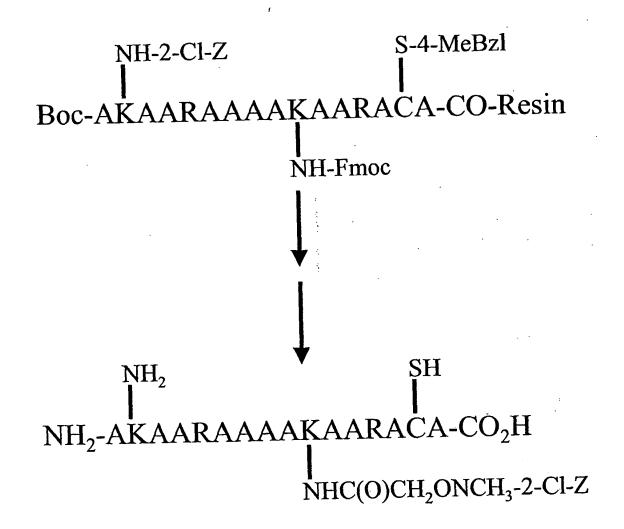


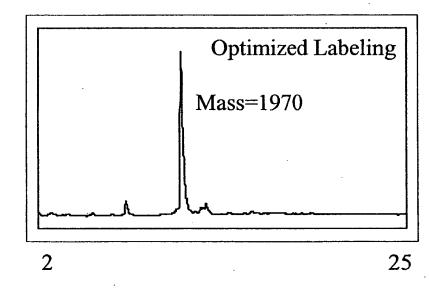
-

Figure 2



SA-Test Peptide

room.zzme



Time (min)

Figure 5

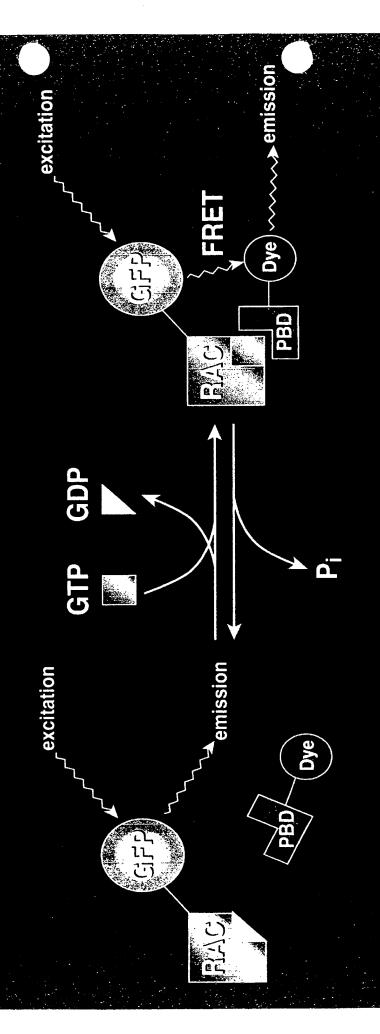


Figure 7A: GFP-Rac to Alexa-PBD FRET

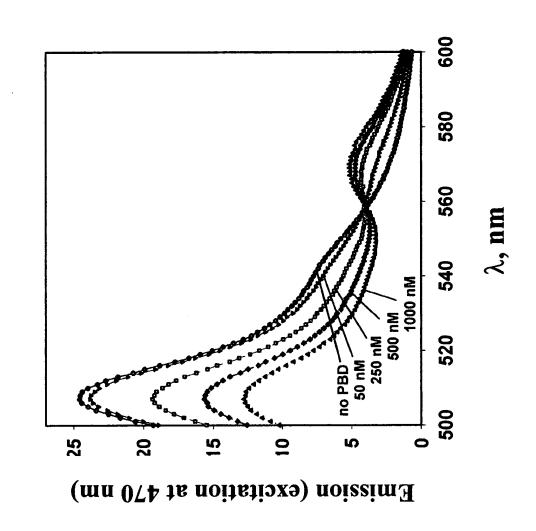
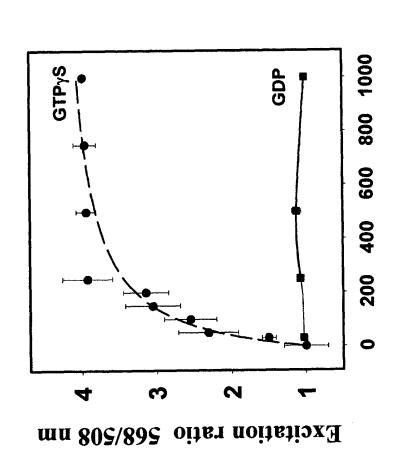


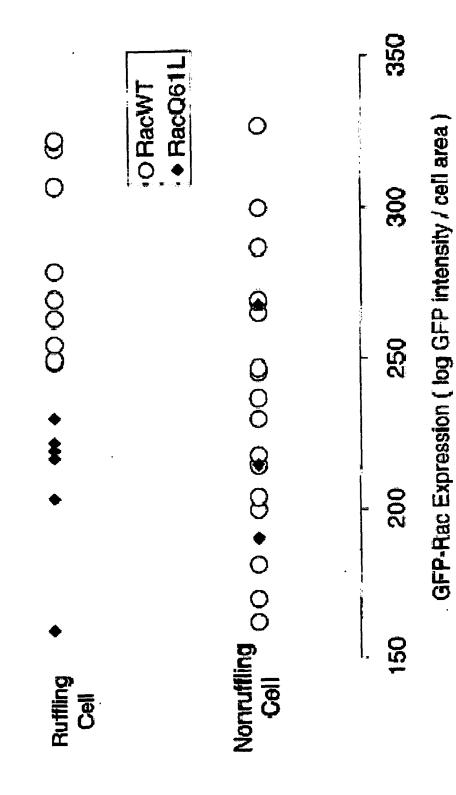
Figure 7B: FRET response to nucleotide state of Rac-GFP



[GTP γ S or GDP], nM

Fig. 8A

Individual cells scored for Rac-Induced ruffling



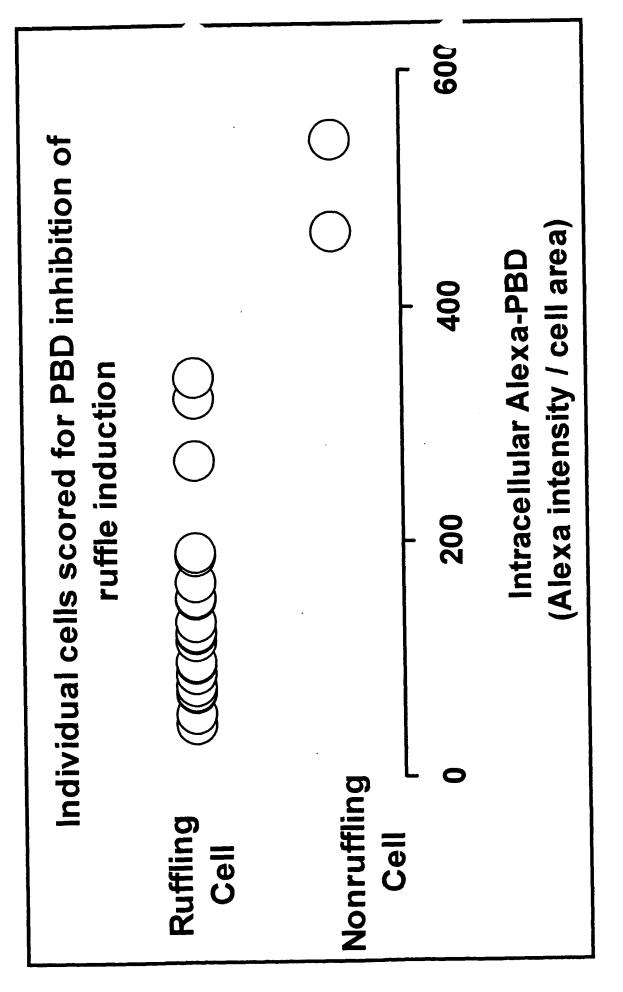
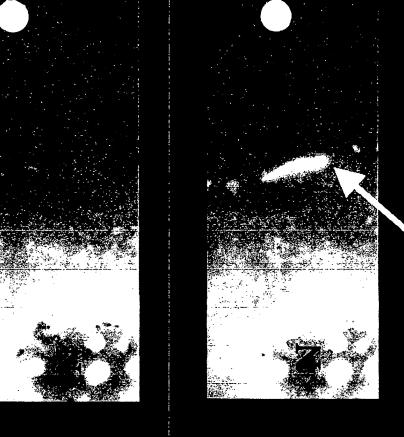


Figure 8B

Fig. 9 A and 9B: Serum stimulation of a Swiss 3T3 fibroblast GFP-Rac ERET Before



B

Ruffle

Fig. 9C and 9D: The same ruffle visualized using either FRET or Alexa-PBD localization:

C. FRET intensity = 0-84

D. Alexa-PBD intensity = 88-345

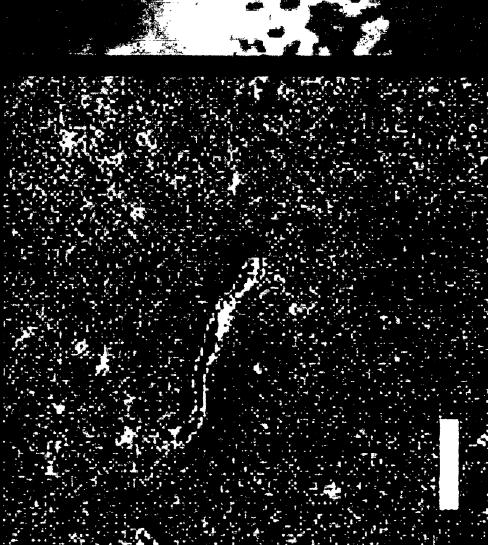




Fig. 10A: Rac-GFP

Fig. 10B: FRET

gnilsəd banoW









Confluent monolayer Magnitude of gradient when highest at front

Magnitude of gradient highest at rear

128 +/- 51 %

9 +/-4 %

n=4

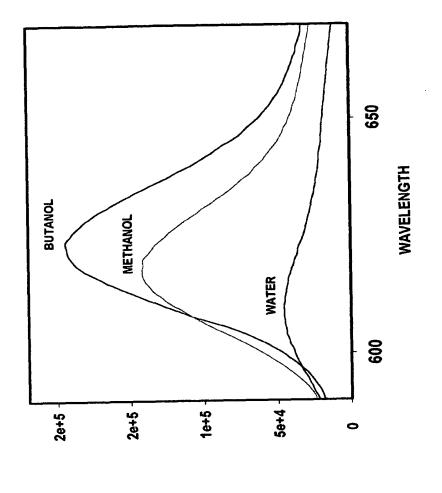


Figure 11

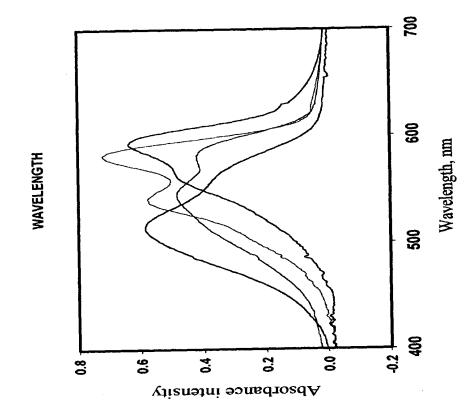
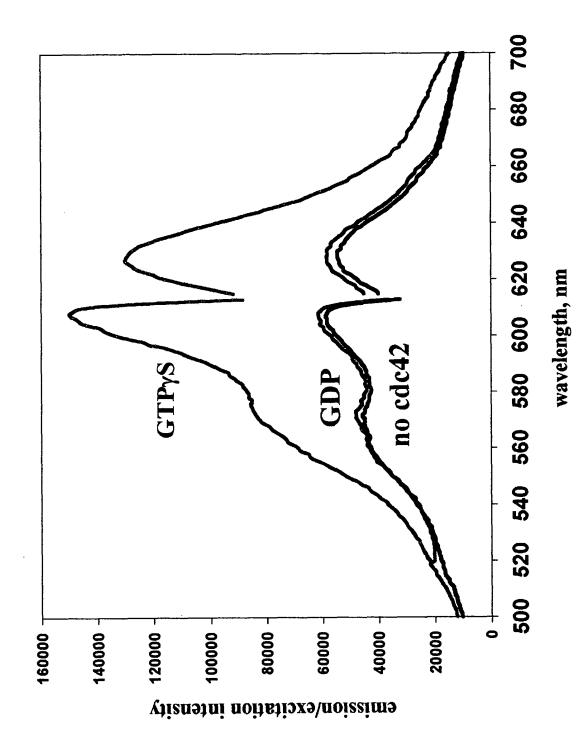


Figure 12

Figure 13: Convergent synthesis of merocyanine dyes

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Fig. 15: Fluorescence of Mero-CBD responds to Cdc42 binding



Lysate saturated with GTP vs time after stimulation with fMLP (minutes) Cell lysate 100 80 9 120 180 160 140 (% initial) Fluorescence - background

Fig. 16: Mero-CBD in neutrophil lysates

<u>Mero-CBD</u> Alexa-CBD

Fig. 17





Alexa-CBD